

Amendments to the Claims

1. (Currently amended) A method for constructing a concrete sandwich panel, comprising the steps of:
  - a) providing a first concrete panel;
  - b) providing a second concrete panel;
  - c) providing an insulation layer between the two concrete panels; and
  - d) connecting the concrete layers and the insulation layer using a rigid sinusoidal element comprised of a fiber-reinforced composite article having a unitary profile.
2. (Currently amended) A method for constructing a concrete sandwich panel, comprising the steps of:
  - a) providing an insulation layer;
  - b) installing a rigid sinusoidal element comprising a fiber-reinforced composite article having a unitary profile;
  - c) placing the insulation layer with the installed sinusoidal element on a first concrete layer; and
  - d) placing a second concrete layer on top of the insulation layer.
3. (Currently amended) A method for constructing a concrete sandwich panel, comprising the steps of:
  - a) attaching rigid sinusoidal elements having a unitary profile to longitudinal reinforcing elements;
  - b) preparing a first concrete layer containing the longitudinal reinforcing elements;
  - c) placing an insulation layer between the sinusoidal elements; and
  - d) placing a second concrete layer over the insulation layer.
4. (Currently amended) A method for constructing a concrete sandwich panel, comprising the steps of:
  - a) providing a first concrete layer with longitudinal reinforcing elements in place;
  - b) installing an insulation layer over the first concrete layer;

- c) pushing rigid sinusoidal elements into the insulation layer; and
- d) placing a second concrete layer with longitudinal reinforcing elements having a unitary profile on the insulation layer.

5. (Canceled)

6. (Currently amended) An insulated concrete wall panel without pre-stressed reinforcing rods, comprising:

- a) a first layer of concrete;
- b) a second layer of concrete;
- c) a layer of insulation material between said layers of concrete;
- d) a rigid sinusoidal element with a top end and a bottom end;
- e) wherein said sinusoidal element comprises a fiber-reinforced composite article having a unitary profile;
- f) said sinusoidal element having said top end located in said first layer of concrete and extending through said insulation layer and having said bottom end embedded in said second layer of concrete.

7. (Currently amended) An insulated concrete wall panel comprising:

- a) a first layer of concrete;
- b) a second layer of concrete;
- c) a layer of insulation material between said layers of concrete;
- d) a rigid sinusoidal element with a top end and a bottom end;
- e) wherein said sinusoidal element comprises a fiber-reinforced composite article having a unitary profile;
- f) said sinusoidal element having said top end located in said first layer of concrete and extending through said insulation layer and having said bottom end embedded in said second layer of concrete; and
- g) said sinusoidal element is not engaged with any pre-stressed reinforcing rods.

8. (New) A method for constructing a concrete sandwich panel, comprising the steps of:

- (a) providing a first concrete panel;
- (b) providing a second concrete panel;
- (c) providing an insulation layer between the two concrete panels; and
- (d) connecting the concrete layers and the insulation layer using a rigid sinusoidal element comprised of a fiber-reinforced composite article that transmits both tension and compression forces between the concrete panels.